

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2014 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>MA0007</b>	Overall LMA Rating	Total LMA Miles						
<b>Sutter Maintenance Yard Maintenance Area 0007</b>	<b>A</b>	<b>11.90</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.08%	0.06			
Trim / Thin Trees	0.01		0.01	0.08%				
Encroachments					3.29	0.03		
Animal Control	0.01		0.01	0.08%				
<i>Supplemental</i>								
USACE Erosion Survey	0.02		0.02	0.17%				
DWR UCIP Field Study					0.28	0.03		
<i>LMA Totals:</i>	0.05	0.00	0.05	0.42%	3.63	0.06	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2014 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0007**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2014 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway			Bank	Unit Miles
Unit No. 01 Feather River			Right	11.90
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	03/18/2014 - 03/18/2014		11/19/2014 - 11/19/2014	
DWR Inspector	Matthew Hoffman		Matthew Hoffman	
Accompanied By	Jason Cooper Sutter Maintenance Yard		Jason Cooper Sutter Maintenance Yard	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0007_01_s_2013_1				
Action/Comments					
Inspector Comments: The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0007_01_s_2013_3				
Action/Comments					
Inspector Comments: Emergency supplies and equipment are stored at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0007_01_s_2013_4				
Action/Comments					
Inspector Comments: Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy.					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable                      N : Not Inspected/Rated  
 M : Minimally Acceptable        C : Corrected  
 U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	0.00	Rating **	A/W	Issue No.	46
LM End	8.07	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments				°
					°
DWR ID	DWR_MA0007_01_f_2014_46				
Action/Comments					
Material					

Photo 1 of 1 : FA\_2014\_MA0007\_200\_46\_20141124\_00015.jpg



This photo was taken from the crown facing south looking at the levee currently under construction and unable to be inspected. Fall 2014.

LM Start	0.01	Rating **	M	Issue No.	42
LM End	1.73	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.311297 °	39.334365 °
				-121.637490 °	-121.633975 °
DWR ID	DWR_MA0007_01_s_2012_42				
Action/Comments					
Ditch Inspector Comments: Erosion along landward levee slope due to agricultural ditch.					

Photo 1 of 2 : FA\_2014\_MA0007\_200\_42\_20141110\_00007.jpg



This photo was taken from the levee crown facing north looking at the erosion along the landward levee slope due to an agricultural ditch. Spring 2014.

LM Start	<b>0.01</b>	Rating **	M	Issue No.	<b>42 (cont)</b>
LM End	<b>1.73</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA\_2014\_MA0007\_200\_42\_20141110\_00008.jpg



Agricultural ditch landside slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	0.42	Rating **	M	Issue No.	216
LM End	0.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.316451 °	39.316451 °
				-121.633837 °	-121.633837 °
DWR ID	DWR_MA0007_01_f _ 2013_216				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Remove tree between levee crown and ditch on landward side.					

Photo 1 of 1 : FA\_2014\_MA0007\_200\_216\_20141110\_00012.jpg



This photo was taken from the levee crown facing south looking down the landward slope at a tree growing near the toe. Fall 2013.

LM Start	0.46	Rating **	M	Issue No.	217
LM End	0.46	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.317050 °	39.317050 °
				-121.633331 °	-121.633331 °
DWR ID	DWR_MA0007_01_f _ 2013_217				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Rodents holes were observed but no rodents visable at time of inspection.					

Photo 1 of 2 : FA\_2014\_MA0007\_200\_217\_20141110\_00013.jpg



Up close photo of said rodent holes. Fall 2013.

LM Start	<b>0.46</b>	Rating **	M	Issue No.	<b>217 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA\_2014\_MA0007\_200\_217\_20141110\_00014.jpg



This photo was taken from the crown of the levee facing north looking down the slope at rodent holes. Fall 2013.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	1.21	Rating **	U	Issue No.	33
LM End	1.21	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.327187 °	39.327187 °
				-121.632395 °	-121.632395 °
DWR ID	DWR_MA0007_01_s_2012_33				
Action/Comments					
Building					

Photo 1 of 1 : FA\_2014\_MA0007\_200\_33\_20141110\_00004.jpg



Levee mile 1.21. This is a photo of the building on the waterside slope.

LM Start	1.54	Rating **	M	Issue No.	6
LM End	1.54	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.331934 °	39.331934 °
				-121.633246 °	-121.633246 °
DWR ID	DWR_MA0007_01_f_2014_6				
Action/Comments					
Inspector Comments: FS_ID:36344 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: crossing appears abandoned, slide gate is missing on landward side; wood frame remains on LS; scour hole present on LS, 3 feet by 3 feet, near wood fram5/10/2013 Same as last inspection. LS scour behind structure needs to be repaired5/13/2013 SBFCA project recommends replacing in accordance with title 231/6/2013 Same as last inspection5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 12-inch CM pipe through the levee, 8.2 feet below the crown. Slide gate on the landward is no longer present. Concrete "U" headwall at the waterward toe. Irrigation ditch located on landward side. FS Date: 5/20/2014 11:58:25 AM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	1.55	Rating **	M	Issue No.	2
LM End	1.55	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.332000 °	39.334240 °
				-121.633178 °	-121.633908 °
DWR ID	DWR_MA0007_01_f_2014_2				
Action/Comments					
Inspector Comments: 2011 - The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: FHR_47-5_R]					

No Photos

LM Start	1.71	Rating **	M	Issue No.	220
LM End	1.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.334157 °	39.334157 °
				-121.633964 °	-121.633964 °
DWR ID	DWR_MA0007_01_f_2013_220				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Blackberry bushes on the landward levee slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	1.76	Rating **	M	Issue No.	7
LM End	1.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334868 °	39.334868 °
				-121.633773 °	-121.633773 °
DWR ID	DWR MA0007 01 f 2014 7				

No Photos

Action/Comments					
Inspector Comments: FS_ID:36347 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted 5/7/2013 Same debris issue as last inspection. Recommend repairing top cover to prevent falls. Wheel to open gate chained and locked so could not verify gate operation 5/13/2013 SBFCA project recommends replacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 1 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway an the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957) FS Date: 5/20/2014 12:01:09 PM					

LM Start	1.76	Rating **	M	Issue No.	10
LM End	1.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.334886 °	39.334886 °
				-121.633783 °	-121.633783 °
DWR ID	DWR MA0007 01 f 2014 10				

No Photos

Action/Comments					
Inspector Comments: FS_ID:36348 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: no cover; debris inside riser could prevent slide gate from closing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0060 however, no issues noted 5/7/2013 Same as last inspection. Recommend constructing cover to prevent falls. Wheel to operate gate chained and locked so gate operation could not be verified 5/13/2013 SBFCA project recommends replacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 60-inch drain pipe through the levee, 2 of 2 pipes, two (2) 60 inch pipes, 12.5 feet below the crown. Slide gates in 78-inch CM pipe wells on the waterward slope. Concrete bulkhead on both ends. Reinforced concrete spillway an the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 1+90). (USACE O&M Manual, 1957) FS Date: 5/20/2014 12:02:08 PM					

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	2.25	Rating **	M	Issue No.	11
LM End	2.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.341208 °	39.341208 °
				-121.630773 °	-121.630773 °
DWR ID	DWR_MA0007_01_f_2014_11				
Action/Comments					
Inspector Comments: FS_ID:36354					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Erosion on waterward side around concrete standpipe--might be leaking. Burrow activity present on waterward slope, unable to determine if structure is still being used. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0075 however, no issues noted5/7/2013 Same as last inspection. Need to investigate source of WS erosion5/13/2013 SBFCA project recommends removal1/6/2013 Same as last inspection5/19/2014 Same as last inspection.					
FIELD_STRUCT_DESC: Abandoned 24-inch CM drainpipe through the levee 12.7 feet below the crown. Flap gate on the waterward end. Concrete distribution box at the waterward toe. Second concrete distribution box located 400-500 feet from landward toe likely connected with drainage structure. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 28+00). (USACE O&M Manual, 1957)					
FS Date: 5/20/2014 12:07:03 PM					

No Photos

LM Start	2.37	Rating **	M	Issue No.	12
LM End	2.37	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.342859 °	39.342859 °
				-121.629909 °	-121.629909 °
DWR ID	DWR_MA0007_01_f_2014_12				
Action/Comments					
Inspector Comments: FS_ID:36355					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Need permit authorizing work 5/7/2013 Need to find owner of structure 5/13/2013 Permit number and owner in detailed report book 1/6/2013 Air vac bent over and both metal posts are laying at toe of levee 5/19/2014 Same as last inspection.					
FIELD_STRUCT_DESC: Air vac on waterward shoulder protected by two metal posts. No other signs of encroachment are present.					
FS Date: 5/20/2014 12:08:37 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	2.57	Rating **	M	Issue No.	13
LM End	2.57	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.345638 °	39.345638 °
				-121.629607 °	-121.629607 °
DWR ID	DWR_MA0007_01_f_2014_13				
Action/Comments					
Inspector Comments: FS_ID:36356 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: WS headwall may be present not visible due to soil cover. Sediment build up on landward headwall--clear. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0083 for inoperable gate 5/7/2013 WS sediment blocking gate has been cleared so gate can operate normally. Recommend clearing sediment buildup at mouth of pipe on L\$13/2013 SBFCA project recommends replacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM pipe through the levee, 6.7 feet below the crown. Flap gate on the waterward end. Concrete headwall at both toes. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 44+50). (USACE O&M Manual, 1957) FS Date: 5/20/2014 12:09:17 PM					

No Photos

LM Start	2.74	Rating **	M	Issue No.	14
LM End	2.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.347977 °	39.347977 °
				-121.630337 °	-121.630337 °
DWR ID	DWR_MA0007_01_f_2014_14				
Action/Comments					
Inspector Comments: FS_ID:36358					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: CMP riser damage-repair needed. Unable to locate pipe on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA07_2010_a_0090 however, no issues noted 5/7/2013 Same as last inspection, rodent activity near crossing, need to repair rodent hole on W 5/13/2013 SBFCFA project recommends relacing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch CM drain pipe through the levee, 25.5 feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 52+50). (USACE O&M Manual, 1957)					
FS Date: 5/20/2014 12:15:32 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	2.83	Rating **	M	Issue No.	16
LM End	2.83	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.349158 °	39.349158 °
				-121.630354 °	-121.630354 °
DWR ID	DWR_MA0007_01_f_2014_16				
Action/Comments					
Inspector Comments: FS_ID:36359 EP_NO: 5722 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: dense burrow activity on crown and slopes/5/7/2013 Same as last inspection. WS sediment drop above concrete stand pipe. Coordinate with owner and levee inspector to address issue/5/13/2013 SBFCA project recommends relacing in accordance with title 23/1/6/2013 Same as last inspection/5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 1-12 inch cement coated and lined steel sewer pipe sleeved through the existing 24-inch CM pipe. Annular space pressure grouted. A 36 inch diameter reinforced concrete pipe riser is located on the waterward side. (Permit No. 5722-1968) The existing 24-inch CMP matches the Drainage or Irrigation structure referenced in the O&M manual (historic station 56+90, USACE O&M Manual, 1957) 24-inch CM pipe goes through levee at a depth of 21.4 feet below the crown. Slide gate in 36-inch reinforced concrete pipe riser located on the waterward slope. Crossing 2 of 2 see levee mile 3.35 entry. FS Date: 5/20/2014 12:17:15 PM					

No Photos

LM Start	3.04	Rating **	M	Issue No.	17
LM End	3.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.352159 °	39.352159 °
				-121.631209 °	-121.631209 °
DWR ID	DWR_MA0007_01_f_2014_17				
Action/Comments					
Inspector Comments: FS_ID:36360 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Unable to determine if this crossing has been altered, will need to coordinate with levee inspector. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0104 however, no issues reported5/7/2013 Structure does appear to be altered. Contact Levee Inspector to pursue NOV/13/2013 SBFCA project recommends relacing in accordance with title 231/6/2013 Same as last inspection5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 15.3 feet below the crown. A reinforced concrete pipe riser located on the waterward side. Flap gate inside riser on the waterward end. 12-inch pipe sleeved through 24-inch pipe. (USACE O&M Manual, 1957) FS Date: 5/20/2014 12:17:51 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	3.34	Rating **	M	Issue No.	18
LM End	3.34	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.354549 °	39.354549 °
				-121.635326 °	-121.635326 °
DWR ID	DWR_MA0007_01_f_2014_18				
Action/Comments					
Inspector Comments: FS_ID:36361 EP_NO: 5722 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: shallow penetration--markers should be present at both sides of the levee to prevent damage to crossing. Marker on waterward side is damaged 5/7/2013 Contact City of Gridley to install carsonite markers on LS to mark crossings location 5/13/2013 SBFCA project recommends relocing in accordance with title 231/6/2013 Same as last inspection 5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 18-inch cast iron sewer pipe through the levee, 2.8 feet below the crown. Concrete thrust block for cutoff walls on both shoulders. Siphon breaker in concrete pipe riser on the waterward shoulder. Pipe crosses river and discharges into sewer ponds in the left bank overflow area. (Permit No. 5722-1968) FS Date: 5/20/2014 12:18:35 PM					

No Photos

LM Start	4.08	Rating **	M	Issue No.	19
LM End	4.08	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.362706 °	39.362706 °
				-121.643678 °	-121.643678 °
DWR ID	DWR_MA0007_01_f_2014_19				
Action/Comments					
Inspector Comments: FS_ID:36362					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Markers need to be replaced--marker should also be present on landward side5/7/2013 Same as last inspection11/6/2013 Same as last inspection5/19/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 8 inch steel sewer line about 2.5 feet below crown. Air relief valve (12 inch by 24 inch) box located on landward shoulder. From waterward side, sewer line runs parallel along levee for approximately 3,952 feet downstream and ties into existing 18 inch pipeline located at LM 3.341.					
FS Date: 5/20/2014 12:22:14 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	4.29	Rating **	M	Issue No.	389
LM End	4.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.364815 °	39.364815 °
				-121.646005 °	-121.646005 °
DWR ID	DWR_MA0007_01_s_2012_389				
Action/Comments					
Crops					

No Photos

LM Start	4.44	Rating **	M	Issue No.	8
LM End	4.44	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	USACE Erosion Survey			39.366726 °	39.367606 °
				-121.647217 °	-121.647866 °
DWR ID	DWR_MA0007_01_f_2014_8				
Action/Comments					
Inspector Comments: 2012 - Oversteepened slope with failing rock (from repair completed in 1954). Likely slope stability issues. 2013: Site is part of the extended inventory, last inspected 2011. [2013 Site ID: FHR_50-9_R]					

No Photos

LM Start	4.44	Rating **	M	Issue No.	39
LM End	5.37	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.366547 °	39.379262 °
				-121.647523 °	-121.650698 °
DWR ID	DWR_MA0007_01_s_2012_39				
Action/Comments					
Ditch					

Photo 1 of 2 : FA\_2014\_MA0007\_200\_39\_20141110\_00005.jpg



Ag ditch landside slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	4.44	Rating **	M	Issue No.	39 (cont)	
LM End	5.37	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			39.366547 °	39.379262 °	
				-121.647523 °	-121.650698 °	
DWR ID	DWR_MA0007_01_s _ 2012_39					
Action/Comments						
Ditch						

Photo 2 of 2 : FA\_2014\_MA0007\_200\_39\_20141110\_00006.jpg



Levee mile 5.37. This is a photo of the Ag ditch on the landside slope and toe.

LM Start	4.98	Rating **	M	Issue No.	20
LM End	4.98	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.373851 °	39.373851 °
				-121.650322 °	-121.650322 °
DWR ID	DWR_MA0007_01_f _ 2014_20				
Action/Comments					
Inspector Comments: FS_ID:36370 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: burrow activity on waterward slope. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0160 no issues reported 5/10/2013 Barrel down inside standpipe. Slide gate difficult to operate 5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection 5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 42-inch CM pipe through the levee 13.6 feet below the crown. Concrete distribution box with slide gate inside located on waterward side. 36-inch pipe goes through the waterward side berm. FS Date: 5/20/2014 12:39:53 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	5.22	Rating **	U	Issue No.	21
LM End	5.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.377343 °	39.377343 °
				-121.650450 °	-121.650450 °
DWR ID	DWR_MA0007_01_f_2014_21				
Action/Comments					
Inspector Comments: FS_ID:36371					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: 5/9/2013 Appeared to be damaged where it exits the					
WS slope, minor settling on LS toe, unable to obtain permit. SBFCA					
project recommends replacing in accordance with title 231/7/2013					
More damage has occurred to power wires. Live wires are now					
exposed. Power company is aware of the problem and are going to fix					
5/19/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 2.5 inch steel electrical conduit 3-4 feet below					
crown of levee.					
FS Date: 5/20/2014 12:40:51 PM					

No Photos

LM Start	5.38	Rating **	M	Issue No.	5
LM End	5.98	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.380272 °	39.380527 °
				-121.649622 °	-121.638423 °
DWR ID	DWR_MA0007_01_f_2012_5				
Action/Comments					
Agricultural tilling Inspector Comments: This site is property of Cilker Revocable Trust, it has an encroachment violation notice dated 7-23-2012, enforcement action : 2011-321. The stockpile has been removed, excavation at the levee toe is still present.					

Photo 1 of 1 : FA\_2014\_MA0007\_200\_5\_20141110\_00001.jpg



This photo shows vehicle traffic has cut into the toe of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	5.40	Rating **	M	Issue No.	22
LM End	5.40	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.379838 °	39.379838 °
				-121.650611 °	-121.650611 °
DWR ID	DWR_MA0007_01_f_2014_22				
Action/Comments					
Inspector Comments: FS_ID:36372 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No access to landward side--residential property; unable to determine the type of abandonment for this crossing; need to determine if there is a positive closure device on waterward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0173 unknown5/10/2013 Same as last inspection5/13/2013 SBFCA project recommends relacing in accordance with title 2317/2013 Same as last inspection5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 24-inch CM irrigation pipe through the levee, 14.0 feet below the crown. Slide gate on the landward side. Slide gate in concrete pipe riser on the waterward berm. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 191+13). (USACE O&M Manual, 1957) FS Date: 5/20/2014 12:42:42 PM					

No Photos

LM Start	5.41	Rating **	M	Issue No.	9
LM End	5.41	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.380153 °	39.380153 °
				-121.650447 °	-121.650447 °
DWR ID	DWR_MA0007_01_s_2012_9				
Action/Comments					
Tank					

No Photos

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	5.42	Rating **	U	Issue No.	32
LM End	5.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.379947 °	39.379947 °
				-121.650525 °	-121.650525 °
DWR ID	DWR_MA0007_01_s_2012_32				
Action/Comments					
Building					

Photo 1 of 1 : FA\_2014\_MA0007\_200\_32\_20141110\_00003.jpg



Levee mile 5.42. This photo shows a building on the landside crown, shoulder and slope.

LM Start	5.49	Rating **	M	Issue No.	23
LM End	5.49	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649344 °	-121.649344 °
DWR ID	DWR_MA0007_01_f_2014_23				
Action/Comments					
Inspector Comments: FS_ID:36373					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Sediment blocking flap gates on waterward side--need to clear sediment. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0180 no issues reported5/10/2013 Same as last inspection5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection5/19/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 1 of 2: 60 inch pipe (downstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957)					
FS Date: 5/20/2014 12:44:28 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	5.49	Rating **	M	Issue No.	24
LM End	5.49	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.380377 °	39.380377 °
				-121.649319 °	-121.649319 °
DWR ID	DWR_MA0007_01_f_2014_24				
Action/Comments					
Inspector Comments: FS_ID:36374 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Sediment blocking flap gate--need to remove sediment to make flap gates operational. 5/10/2013 Same as last inspection. 5/13/2013 SBFCA project recommends relacing in accordance with title 23. 1/7/2013 Same as last inspection. 5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 60 inch pipe (upstream pipe), through the levee, 23.4 feet below the crown. Flap gate on the waterward end. Concrete headwalls on both ends. Ditch located at waterward outlet. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 195+80). (USACE O&M Manual, 1957) FS Date: 5/20/2014 12:45:12 PM					

No Photos

LM Start	7.85	Rating **	M	Issue No.	25
LM End	7.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.398336 °	39.398336 °
				-121.630529 °	-121.630529 °
DWR ID	DWR_MA0007_01_f_2014_25				
Action/Comments					
Inspector Comments: FS_ID:36384 EP_NO: 17895 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: localized erosion at air vent located on waterward shoulder; this crossing appears to have leaking at the air vent--will need to determine reason for erosion at air vent (vehicles going over vent?); also recommend installing utility market.1/7/2013 Same as last inspection.5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 5-inch diameter steel irrigation pipe through the right (west) bank levee and connect to existing pipe within the overflow area of the Feather River. (Permit No. 17895-2005) FS Date: 5/20/2014 1:16:55 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	8.56	Rating **	U	Issue No.	26
LM End	8.56	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.404475 °	39.404475 °
				-121.636958 °	-121.636958 °
DWR ID	DWR_MA0007_01_f_2014_26				
Action/Comments					
Inspector Comments: FS_ID:36387					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Indicator Found					
UCIP Comments: 5/9/13 Depression along WS slope that could indicate a leak or poor compaction. Unknown permit number need to coordinate with landowner to find out more info11/7/2013 Same as last inspection5/19/2014 Same as last inspection.					
FIELD_STRUCT_DESC: Irrigating crossing through levee depth unknown. Steel stand pipe located on landward toe. Also present is 4.5 inch PVC pipe near stand pipe located on landward toe.					
FS Date: 5/20/2014 1:25:47 PM					

No Photos

LM Start	8.72	Rating **	U	Issue No.	27
LM End	8.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.406614 °	39.406614 °
				-121.637384 °	-121.637384 °
DWR ID	DWR_MA0007_01_f_2014_27				
Action/Comments					
Inspector Comments: FS_ID:36388					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Indicator Found					
UCIP Comments: 5/9/13 Unknown permit coordinate with landowner to find out more information11/7/2013 Same as last inspection5/19/2014 Same as last inspection.					
FIELD_STRUCT_DESC: Unknown irrigation pipe size at unknown depth. Pipe capped with valve inside of 6 inch steel standpipe on landward shoulder.					
FS Date: 5/20/2014 1:26:40 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	8.76	Rating **	M	Issue No.	28
LM End	8.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.407159 °	39.407159 °
				-121.637409 °	-121.637409 °
DWR ID	DWR_MA0007_01_f_2014_28				
Action/Comments					
Inspector Comments: FS_ID:36389 EP_NO: 14200 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Landward shoulder, small hole with too much moisture; rocks look wet last rain event occurred 4 days ago5/10/2013 Appears to just be surface erosion and not a crossing. Will keep monitoring until sur5/13/2013 SBFA project recommends relacing in accordance with title 231/7/2013 Same as last inspection5/19/2014 Same as last inspection. FIELD_STRUCT_DESC: 2-inch diameter galvanized pipe line 2 feet below crown. (Permit No. 14200-1985) FS Date: 5/20/2014 1:27:14 PM					

No Photos

LM Start	9.67	Rating **	M	Issue No.	29
LM End	9.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.416284 °	39.416284 °
				-121.632224 °	-121.632224 °
DWR ID	DWR_MA0007_01_f_2014_29				
Action/Comments					
Inspector Comments: FS_ID:36390 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: unable to determine the condition of the slide gate inside waterward concrete standpipe blackberry shrubs overgrown against access lattice 5/10/2013 Same as last inspection. Cleared back some of the black berries but live birds nest on ladder prevented me from inspecting inside of standpipe. Recommend spraying the black berries to clear path to ladder 5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection 5/20/2014 Same as last inspection. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 14.0 feet below the crown. Slide gate in 36-inch concrete standpipe at the waterward toe. Concrete distribution box at the landward toe. FS Date: 5/20/2014 1:29:00 PM					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	9.79	Rating **	U	Issue No.	45
LM End	9.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.416384 °	39.416384 °
				-121.634503 °	-121.634503 °
DWR ID	DWR_MA0007_01_s_2012_45				
Action/Comments					
Building					

Photo 1 of 1 : FA\_2014\_MA0007\_200\_45\_20141110\_00010.jpg



Levee mile 9.79. This photo shows a building at the landside toe.

LM Start	9.83	Rating **	M	Issue No.	51
LM End	9.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.416864 °	39.416864 °
				-121.634822 °	-121.634822 °
DWR ID	DWR_MA0007_01_s_2014_51				
Action/Comments					
Debris					
Inspector Comments: Irrigation pipe on landward levee slope. Spring 2014.					

Photo 1 of 1 : FA\_2014\_MA0007\_200\_51\_20141110\_00011.jpg



This photo was taken from the levee crown facing north looking at irrigation pipe placed on the levee slope near the landward toe. Spring 2014.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	10.12	Rating **	M	Issue No.	30
LM End	10.12	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.420736 °	39.420736 °
				-121.635321 °	-121.635321 °
DWR ID	DWR_MA0007_01_f_2014_30				
Action/Comments					
Inspector Comments: FS_ID:36392 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Crossing appears to be abandoned; slide gate located inside concrete standpipe is buried with trash; no other features were visible during inspection. This crossing needs to be properly abandoned5/10/2013 Same as last inspection5/13/2013 SBFCA project recommends removal1/7/2013 Same as last inspection5/20/2014 Same as last inspection. FIELD_STRUCT_DESC: Abandoned 10-inch reinforced concrete encased steel irrigation pipe through the levee, 14.5 feet below the crown. Slide gate in 24-inch concrete standpipe at the waterward toe. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 437+30). (USACE O&M Manual, 1957) FS Date: 5/20/2014 1:36:14 PM					

No Photos

LM Start	10.25	Rating **	M	Issue No.	31
LM End	10.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.420905 °	39.420905 °
				-121.637707 °	-121.637707 °
DWR ID	DWR_MA0007_01_f_2014_31				
Action/Comments					
Inspector Comments: FS_ID:36393					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: unable to determine if this crossing still is in use, signs of depression on waterward shoulder, pump located on LS (GW?) valve on waterward toe. No slide gate or concrete standpipe present; structure appears to have been modified--need permit issued for modification5/10/2013 Same as last inspection5/13/2013 SBFCA project recommends removal11/7/2013 Same as last inspection5/20/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 14.5 feet below the crown. Slide gate in concrete standpipe and pump on the landward side.					
FS Date: 5/20/2014 1:40:23 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	10.83	Rating **	M	Issue No.	34
LM End	10.83	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.426781 °	39.426781 °
				-121.642078 °	-121.642078 °
DWR ID	DWR_MA0007_01_f_2014_34				
Action/Comments					
Inspector Comments: FS_ID:36394 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: nothing found on landward side--residential; no headwall found on landward side--has it been buried? Need to investigate if crossing is here. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0314 no issues reported5/10/2013 Same as last inspection5/13/2013 SBFCA project recommends removal1/7/2013 Same as last inspection5/20/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 14.5 feet below the crown. Concrete headwall at both toes. Flap gate in 36-inch concrete standpipe on the berm. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 471+26). (USACE O&M Manual, 1957) FS Date: 5/20/2014 1:41:20 PM					

No Photos

LM Start	10.95	Rating **	M	Issue No.	35
LM End	10.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.428380 °	39.428380 °
				-121.642228 °	-121.642228 °
DWR ID	DWR_MA0007_01_f_2014_35				
Action/Comments					
Inspector Comments: FS_ID:36395					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: crossing appears to be abandoned--unknown method of abandonment; headwall buried with a small section of headwall exposed 5/10/2013 Same as last inspection 5/13/2013 SBFCA project recommends removal 1/7/2013 Same as last inspection 5/20/2014 Same as last inspection.					
FIELD_STRUCT_DESC: Abandoned 24-inch CM drainpipe through the levee, 17.5 feet below the crown. Concrete headwall at landward toe. Flap gate on waterward end covered with dirt. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 476+60). (USACE O&M Manual, 1957)					
FS Date: 5/20/2014 1:43:02 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	11.17	Rating **	M	Issue No.	36
LM End	11.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.430540 °	39.430540 °
				-121.645118 °	-121.645118 °
DWR ID	DWR_MA0007_01_f_2014_36				
Action/Comments					
Inspector Comments: FS_ID:36398 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: waterward side-missing top cover of the CMP riser; debris inside CMP riser; wheel handle missing from slide gate. Unable to determine condition of slide gate face. landward side-crossing not visible. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0330 no issues reported5/10/2013 Top cover has fallen down inside standpipe and may prevent gate from fully closing. Wheel to operate gate still missing5/13/2013 SBFCA project recommends removal1/7/2013 Same as last inspection5/20/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch reinforced concrete encased CM irrigation pipe through the levee, 21.0 feet below the crown. Slide gate in 36-inch CM pipe riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 490+50). (USACE O&M Manual, 1957) FS Date: 5/20/2014 1:47:11 PM					

No Photos

LM Start	11.24	Rating **	M	Issue No.	37
LM End	11.24	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.431546 °	39.431546 °
				-121.645474 °	-121.645474 °
DWR ID	DWR_MA0007_01_f_2014_37				
Action/Comments					
Inspector Comments: FS_ID:36400 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: flash boards missing on LS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0332 no issues reported 5/10/2013 Same as last inspection. Talking with farmer he said the pipe may be getting removed 5/13/2013 SBFCA project recommends relacing in accordance with title 23 1/7/2013 Same as last inspection 5/20/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee. 18.9 feet below the crown. Flap gate on the waterward end. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 494+50). (USACE O&M Manual, 1957) FS Date: 5/20/2014 1:49:42 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	11.24	Rating **	M	Issue No.	15
LM End	11.24	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.431591 °	39.431591 °
				-121.645477 °	-121.645477 °
DWR ID	DWR_MA0007_01_s_2013_15				
Action/Comments					
Building Inspector Comments: Building appears to be abandoned.					

Photo 1 of 1 : FA\_2014\_MA0007\_200\_15\_20141110\_00002.jpg



L/S levee toe- Abandoned building.

LM Start	11.28	Rating **	M	Issue No.	38
LM End	11.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.432143 °	39.432143 °
				-121.645516 °	-121.645516 °
DWR ID	DWR_MA0007_01_f_2014_38				
Action/Comments					
Inspector Comments: FS_ID:36401					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: burrow activity near headwall on landward side; scour near concrete apron and below apron; This crossing was listed in the USACE Periodic Inspection as ID#					
USACE_CESPK_MA07_2010_a_0336 no issues reported 5/10/2013					
Same as last inspection 5/13/2013 SBFCA project recommends					
relacing in accordance with title 23.1/7/2013 Same as last					
inspection 5/20/2014 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 15.8					
feet below the crown. Concrete headwall at both toes. Flap gate on the					
waterward end. This entry matches the Drainage or Irrigation Structure					
referenced in O&M manual (Historic Station 496+20). (USACE O&M					
Manual, 1957)					
FS Date: 5/20/2014 1:50:26 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	11.39	Rating **	M	Issue No.	40
LM End	11.39	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.433674 °	39.433674 °
				-121.645591 °	-121.645591 °
DWR ID	DWR_MA0007_01_f_2014_40				
Action/Comments					
Inspector Comments: FS_ID:36402					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Abandoned pipe-need to properly abandon structure;					
CMP riser cover missing on WS; WS pipe filled with concrete; LS					
crossing not visible 6/10/2013 Same as last inspection 5/13/2013					
SBFCA project recommends removal 1/7/2013 Same as last					
inspection 5/20/2014 Same as last inspection.					
FIELD_STRUCT_DESC: Abandoned 24-inch reinforced concrete					
encased CM irrigation pipe through the levee, 19.5 feet below the					
crown. Concrete headwall at the landward toe. Slide gate in 36-inch CM					
riser on the waterward slope. This entry matches the Drainage or					
Irrigation Structure referenced in O&M manual (Historic Station					
502+20). (USACE O&M Manual, 1957)					
FS Date: 5/20/2014 1:50:56 PM					

No Photos

LM Start	11.52	Rating **	M	Issue No.	41
LM End	11.52	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.435497 °	39.435497 °
				-121.645712 °	-121.645712 °
DWR ID	DWR_MA0007_01_f_2014_41				
Action/Comments					
Inspector Comments: FS_ID:36403					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Non-fuctional crossing landward inlet buried;					
waterward side-debris in CMP riser, riser missing lid; This crossing was					
listed in the USACE Periodic Inspection as ID#					
USACE_CESPK_MA07_2010_a_0344 for pipes filled > 50 % with					
soil/10/2013 Same as last inspection. LS inlet excavated but more					
than 50% still covered by soil/13/2013 SBFCA project recommends					
removal1/7/2013 Same as last inspectio5/20/2014 Same as					
last inspection.					
FIELD_STRUCT_DESC: 24-inch CM drainpipe through the levee, 16.2					
feet below the crown. Concrete headwall at both toes. Flap gate on the					
waterward end. This entry matches the Drainage or Irrigation Structure					
referenced in O&M manual (Historic Station 508+40). (USACE O&M					
Manual, 1957)					
FS Date: 5/20/2014 1:51:35 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2014**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	11/19/2014 11/19/2014	Matthew Hoffman

LM Start	11.63	Rating **	M	Issue No.	43
LM End	11.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.437119 °	39.437949 °
				-121.645860 °	-121.646280 °
DWR ID	DWR_MA0007_01_s_2012_43				
Action/Comments					
Landscaping					

Photo 1 of 1 : FA\_2014\_MA0007\_200\_43\_20141110\_00009.jpg



Landside landscaping levee mile 11.63.

LM Start	11.68	Rating **	M	Issue No.	44
LM End	11.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.437766 °	39.437766 °
				-121.646196 °	-121.646196 °
DWR ID	DWR_MA0007_01_f_2014_44				
Action/Comments					
Inspector Comments: FS_ID:36406 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: unable to determine the condition of the slide gate inside riser--need to determine condition. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA07_2010_a_0355 no issues reported 5/10/2013 Same as last inspection. Burrow activity above WS rise 5/13/2013 SBFCA project recommends relacing in accordance with title 231/7/2013 Same as last inspection. Metal cone structure on WS was removed and a flapgate was under 5/20/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch reinforced concrete encased CM irrigation pipe through the levee, 18.8 feet below the crown. Slide gate in 36-inch CM riser on the waterward slope. This entry matches the Drainage or Irrigation Structure referenced in O&M manual (Historic Station 517+40). (USACE O&M Manual, 1957) FS Date: 5/20/2014 1:53:27 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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